

Message Text

PAGE 01 STATE 226218

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ORIGIN NSF-02

INFO OCT-01 NEA-10 ISO-00 OES-06 FEA-01 EPA-04 CEQ-01 /025 R

DRAFTED BY NSF/DSI:LGBURCHINAL:RWF
APPROVED BY OES/BMP/APT:WJWALSH, III
NSF/DSI:LGBURCHINAL
NEA/INS:RFOBER(INFO)

----- 096939

P 132203Z SEP 76

FM SECSTATE WASHDC

TO AMEMBASSY NEW DELHI PRIORITY

UNCLAS STATE 226218

E.O. 11652: N/A

TAGS: TGEN, IN

SUBJECT: US-INDIA SEMINAR ON INFORMATION RESOURCES IN
-- ENERGY, ENVIRONMENT AND NATURAL RESOURCES

-- REF: (A) STATE 186677, (B) NEW DELHI 11360

1. SINCE LEAD TIME TO SEMINAR IS SHORT, PLEASE PASS
FOLLOWING COMMUNICATION FROM DR. L.G. BURCHINAL, NSF, TO
DR. N. APPUKUTTAN, DST.

2. AS A RESULT OF DR. APPUKUTTAN'S LETTER OF AUGUST 16
CONFIRMING DATES OF INDIAN SCIENTISTS VISIT TO US AND
CLARIFYING SEVERAL POINTS REGARDING PREFERENCES, WE HAVE
DEVELOPED A TENTATIVE SCHEDULE AND SEMINAR PROGRAM LISTED
AS ANNEX 1 AND 2 RESPECTIVELY TO THIS TELEGRAM.

3. SCHEDULE PROPOSES A VISIT OF 19 DAYS (OCTOBER 2-20) TO
ALLOW SUFFICIENT TIME AND OPPORTUNITY FOR SITE VISITS IN
THE WASHINGTON AREA. OTHERWISE A SCHEDULE CONSTRAINED TO
15 DAYS (OCTOBER 3-17) WOULD IMPOSE UNDUE STRAIN ON
PARTICIPANTS AND REDUCE OPPORTUNITY FOR VISITS TO IMPORTANT
INFORMATION CENTERS. SITE VISITS IN SAN FRANCISCO BAY AREA
UNCLASSIFIED

PAGE 02 STATE 226218

ARE SUGGESTED. OTHER R&D FACILITIES CAN BE VISITED WHICH
MAY BE OF SPECIAL INTEREST TO DIFFERENT MEMBERS OF INDIAN
GROUP. IF DESIRED, WE CAN SPLIT THE GROUP FOR SIMULTANEOUS
VISIT TO DIFFERENT CENTERS. LIST OF OTHER SUGGESTED CENTERS

WILL BE SENT SHORTLY.

4. REGARDING THE THREE-DAY SEMINAR PROGRAM FOR WASHINGTON, THE THREE MAJOR SESSIONS ON ENERGY, ENVIRONMENT AND NATURAL RESOURCES WILL BE HELD AT THE CO-SPONSORS LOCATIONS TO AFFORD PARTICIPANTS AN OPPORTUNITY FOR SITE VISITS OF THE ERDA, EPA AND INTERIOR DEPT INFORMATION FACILITIES. TO MAXIMIZE DISCUSSION AND ACCOMMODATE THE 20 PAPERS WITHIN THE LIMITED 3-DAY PERIOD, WE PROPOSE TO ALLOT 25 MINUTES FOR SUMMARIZATION AND DISCUSSION OF EACH PAPER WITH THE UNDERSTANDING THAT AUTHORS WILL LIMIT THEMSELVES TO 15 MINUTES FOR THEIR REMARKS. AN INDIAN AND AMERICAN WILL CO-MODERATE EACH SESSION. EACH SESSION WILL CONCLUDE WITH A GENERAL DISCUSSION THAT SHOULD FOCUS ON IDENTIFYING AREAS OR PROJECTS FOR POSSIBLE COOPERATION UNDER THE US-INDIA JOINT SUBCOMMISSION ON SCIENCE AND TECHNOLOGY. THE FINAL SESSION WILL BE DEVOTED TO A DISCUSSION AND ACCEPTANCE OF A DRAFT SUMMARY RECORD OR REPORT OF THE SEMINAR. FOR THIS PURPOSE, WE PROPOSE THAT EACH SIDE APPOINT A RAPPORTEUR FOR EACH SESSION TO WORK TOGETHER IN PREPARING A DRAFT THAT CAN BE DISCUSSED AT THE FINAL SESSION.

5. IN ASSIGNING THE INDIAN PAPERS TO THE VARIOUS SESSIONS IN THE PROGRAM, WE HAVE BEEN SOMEWHAT ARBITRARY IN OUR JUDGMENT BECAUSE OF TOPICAL OVERLAP; HOWEVER, DEPENDING ON THE VIEWPOINT TAKEN, WE BELIEVE THAT THE ASSIGNMENTS AS MADE CAN BE JUSTIFIED. IF YOU BELIEVE ADJUSTMENTS SHOULD BE MADE, PLEASE LET US KNOW.

6. IN SESSION1, DR. BURCHINAL WILL PRESENT AN OVERVIEW OF S&T INFORMATION ACTIVITIES IN THE UNITED STATES. ALTHOUGH WE DO NOT HAVE AN INDIAN PAPER ON THIS TOPIC, WE URGE THAT YOU PLAN TO PRESENT ONE. SUCH A PAPER WILL BE USEFUL IN ORIENTING THE US PARTICIPANTS AS TO THE GENERAL CONTEXT IN WHICH THEY CAN DISCUSS COOPERATION WITH INDIAN COUNTERPARTS. A BRIEF EXPOSITION OF THE UNCLASSIFIED

PAGE 03 STATE 226218

CONCEPT OF NISSAT AND A GENERAL DESCRIPTION OF THE CURRENT ORGANIZATION IN INDIA FOR S&T INFORMATION WILL UNDOUBTEDLY BE MOST ENLIGHTENING.

7. THE US SIDE WILL PROVIDE A US DOLLAR PER DIEM ALLOWANCE SUFFICIENT TO COVER THE COST OF EACH PARTICIPANT'S LODGING, MEALS AND OTHER INCIDENTAL EXPENSES WHILE IN THE UNITED STATES. WE PREFER TO COVER COST OF AIR TRAVEL IN THE UNITED STATES THROUGH USE OF US-OWNED INDIAN RUPEES. IF AIR INDIA WILL ACCEPT RUPEES FOR WRITING THE US PORTION OF THE INDIAN PARTICIPANTS' TICKETS, PLEASE LET US KNOW WHAT THE ESTIMATED TOTAL COST WILL BE SO THAT WE MAY AUTHORIZE THE US EMBASSY IN NEW

DELHI TO MAKE SUCH PAYMENT TO AIR INDIA. URGENT: REPLY
ASAP.

8. US PAPERS HAVE BEEN COMPLETED AND TWO SETS ARE BEING
DISPATCHED VIA AIR POUCH; ALSO 10 COPIES OF FINAL PRINTED
ASIS MEETING PROGRAM.

9. TO BETTER MATCH THE INTERESTS OF INDIAN PARTICIPANTS
WITH THE SITE VISITS, WE WOULD LIKE TO HAVE SOONEST BRIEF
BIOGRAPHIC SKETCHES OF EACH INDIAN PARTICIPANT. BIO-
SKETCHES OF US PARTICIPANTS WILL BE MADE AVAILABLE
SHORTLY.

10. THE FINAL SIZE OF THE INDIAN GROUP IS NOT CLEAR.
REF (A) LISTS NINE PERSONS. WILL A TENTH PERSON BE
DESIGNATED AND WHO WILL BE LEADER OF THE GROUP? HOW MANY
INDIAN PARTICIPANTS ACTUALLY PLAN TO ATTEND THE ASIS
MEETING IN SAN FRANCISCO?

11. FOR HOTEL ACCOMMODATIONS AT ALL LOCATIONS THERE ARE
SIGNIFICANT SAVINGS IN INDIVIDUAL PER DIEM ALLOWANCES IF
INDIAN PARTICIPANTS WISH DOUBLE ROOMS RATHER THAN SINGLE
ROOM ACCOMMODATIONS. IF DOUBLE ROOM ACCOMMODATIONS ARE
PREFERRED, WE NEED TO KNOW NAME PAIRS.

12. IN SUMMARY, WE NEED IMMEDIATE AGREEMENT OR
RESPONSE TO FOLLOWING:

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PAGE 04 STATE 226218

- (A) EXPANDED SCHEDULE OF 19 DAYS (OCTOBER 2-20);
- (B) SPLITTING OF GROUP FOR SIMULTANEOUS VISITS TO
 - DIFFERENT CENTERS;
- (C) SPEAKER TIME ALLOTMENT, ASSIGNMENT OF INDIAN
 - PAPERS TO SESSIONS, AND USE OF RAPPORTEURS
 - FOR THE SEMINAR;
- (D) PAPER ON OVERVIEW OF INDIAN STI ACTIVITIES;
- (E) ACCEPTANCE OF INDIAN RUPEES BY AIR INDIA FOR
 - PAYMENT OF US TRAVEL PORTION OF PARTICIPANTS
 - TICKETS AND ESTIMATED TOTAL COST;
- (F) BIOSKETCHES OF INDIAN PARTICIPANTS;

- (G) SIZE OF INDIAN GROUPS AND NAME OF GROUP LEADER;
- (H) NUMBER OF PARTICIPANTS ATTENDING ASIS MEETING;
- (I) PREFERENCE FOR SINGLE OR DOUBLE ROOM HOTEL
- ACCOMMODATIONS AND NAME PAIRS IF LATTER PRE-
- FERRED.

ANNEX NO. 1

TENTATIVE SCHEDULE
FOR U.S. VISIT OF INDIAN SCIENTISTS
ON I
INFORMATION RESOURCES IN ENERGY, ENVIRONMENT
AND NATURAL RESOURCES

OCTOBER 2-20, 1976
UNCLASSIFIED

PAGE 05 STATE 226218

SAN FRANCISCO - COLUMBUS - WASHINGTON

NEW YORK CITY
OCT. 2 - ARRIVE NEW YORK CITY 1535 VIA AIR INDIA NO. 111
OVERNIGHT AT HOLIDAY INN, J.F. KENNEDY INT'L AIRPORT

SAN FRANCISCO
OCT. 3 - DEPART NEW YORK CITY 1100 VIA TWA NO. 41
ARRIVE SAN FRANCISCO 1340
HOTEL: SAN FRANCISCO HILTON

OCT. 4-9 - ASIS ANNUAL CONFERENCE
DURING TIME OF CONFERENCE, SITE VISITS TO INFORMATION
AND R&D FACILITIES IN THE SAN FRANCISCO BAY AREA WILL BE
ARRANGED ACCORDING TO SPECIAL INTERESTS. FACILITIES
INCLUDE:

LAWRENCE BERKELEY LABORATORY
LOCKHEED INFORMATION RETRIEVAL SERVICE
STANFORD SPIRES SYSTEM
ELECTRIC POWER RESEARCH INSTITUTE

COLUMBUS
OCT. 10 - DEPART SAN FRANCISCO 0745 VIA TWA NO. 542
ARRIVE COLUMBUS, OHIO 1657
HOTEL: CENTER FOR TOMORROW, OHIO STATE UNIVERSITY

OCT. 11 - SITE VISITS

CHEMICAL ABSTRACTS SERVICE
BATTELLE LABORATORIES

WASHINGTON

OCT. 12 - DEPART COLUMBUS 0915 VIA TWA NO. 426

ARRIVE WASHINGTON 1014

HOTEL: METROPOLITAN, 1143 NEW HAMPSHIRE AVENUE, N.W.

OCT. 13-15 - U.S. - INDIA SEMINAR

TENTATIVE SCHEDULE FOR U.S. VISIT OF INDIAN SCIENTISTS

UNCLASSIFIED

PAGE 06 STATE 226218

(CONT'D)

OCT. 16-17 - FREE WEEKEND - TOURS OF WASHINGTON

OCT. 18 - SITE VISITS

SMITHSONIAN SCIENCE INFORMATION EXCHANGE

LIBRARY OF CONGRESS

OCT. 19 - SITE VISITS

NATIONAL TECHNICAL INFORMATION SERVICE

U.S. GEOLOGICAL SURVEY

OCT. 20 - NOAA AND/OR OTHER CENTERS ACCORDING TO
INTERESTS

DEPART DULLES 1650 VIA TWA NO. 876

ARRIVE JFK, NYC 1810

DEPART JFK 2045 VIA AIR INDIA NO. 106

(END OF ANNEX NO. 1)

ANNEX NO. 2

US-INDIA SEMINAR ON INFORMATION RESOURCES IN ENERGY,
ENVIRONMENT AND NATURAL RESOURCES

WASHINGTON, D.C. -- OCTOBER 13-15, 1976

PROGRAM

WEDNESDAY, OCTOBER 13

LOCATION: ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION
GERMANTOWN, MARYLAND

9:00 - OPENING

DR. LEE G. BURCHINAL (NSF), US COORDINATOR, US-INDIA
WORKING GROUP ON INFORMATION SCIENCE

UNCLASSIFIED

PAGE 07 STATE 226218

-----, INDIAN GROUP LEADER

MR. THOMAS E. HUGHES, ACTING DIRECTOR, OFFICE OF TECHNICAL
INFORMATION, ERDA

SESSION I - AN OVERVIEW

9:30 - THE S&T COMMUNICATION ENTERPRISE IN THE UNITED
STATES: STATUS AND FORECAST -- DR. LEE G. BURCHINAL

9:50 - OVERVIEW OF STI IN INDIA -- (BY AN INDIAN)

10:10 - DISCUSSION

10:30 - BREAK

SESSION II -- ENERGY INFORMATION RESOURCES

MODERATORS; MR. THOMAS E. HUGHES, ERDA
(AN INDIAN)

10:45 - ENERGY INFORMATION - A DEVELOPING RESOURCE
MR. HOWARD B. SHIRLEY,
BATTELLE ENERGY INFORMATION CENTER

11:10 - INFORMATION INPUTS FOR RESOURCE PLANNING OF
ELECTRICAL ENERGY DEVELOPMENT IN INDIA
MR. G.C. BHATTACHARYA,
BHARAT HEAVY ELECTRICALS LIMITED

11:35 - FOSSIL ENERGY INFORMATION RESOURCES IN THE
UNITED STATES
MR. WILLIAM M. VADEN, ERDA

12:00 - TOWARDS ESTABLISHMENT OF A COMPUTERIZED
PETROLEUM DATA BANK (COPEL) OF THE OIL AND NATURAL GAS
COMMISSION OF INDIA
V.V. SASTRI, OIL & NATURAL GAS COMMISSION

12:25 - HUD SOLAR SOURCE: AN INFORMATION RESOURCE
MR. JEREMY A. LIFSEY,
UNCLASSIFIED

PAGE 08 STATE 226218

FRANKLIN RESEARCH INSTITUTE LABORATORIES

12:50 - INDIAN'S PROGRAMME ON SOLAR ENERGY-INFORMATION
REQUIREMENTS
MR. U. VENKATESWARLU, CENTRAL ELECTRONICS LTD.

1:15 - GENERAL DISCUSSION AND SUMMARY OF SESSION

2:00 - LUNCH

3:30 - TOUR, EXHIBITION, DEMONSTRATION AT ERDA

7:00 - RECEPTION BY DR. M. ANANDAKRISHNAN, SCIENCE ATTACHE, EMBASSY OF INDIA

THURSDAY, OCTOBER 14

LOCATION: ENVIRONMENTAL PROTECTION AGENCY
WATERSIDE MALL, ROOM -----
401 M STREET, S.W.

SESSION III - ENVIRONMENTAL INFORMATION RESOURCES

MODERATORS: MS. SARAH M. KADEC, EPA
(AN INDIAN)

9:00 - WELCOME (BY HOST AGENCY) - MS. SARAH M. KADEC,
EPA

9:10 - U.S. ENVIRONMENTAL DATA SYSTEMS AND CENTERS
DR. THOMAS S. AUSI:TIN, NOAA

9:35 - ENVIRONMENTAL INFORMATION IN RETROSPECT AND
PROSPECT
MR. J.M. DAVE
NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

10:00 - FEDERAL GOVERNMENT ENVIRONMENTAL INFORMATION
SYSTEMS
MR. NEIL HALEY, EPA

UNCLASSIFIED

PAGE 09 STATE 226218

10:25 - BREAK

10:40 - TOWARDS AN INFORMATION SYSTEM ON ENVIRONMENT
DR. ABHIJIT LAHIRI, DEPARTMENT OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY

11:05 - PRIVATE ENVIRONMENTAL SOURCES AND PUBLICATIONS
MR. JAMES G. KOLLEGGER
ENVIRONMENT INFORMATION CENTER, INC.

11:30 - AN ASSESSMENT OF INFORMATION REQUIREMENTS IN
MARINE SCIENCES IN INDIA
DR. V.S. BHATT,
NATIONAL INSTITUTE OF OCEANOGRAPHY

.,:55 - GENERAL DISCUSSION AND SUMMARY OF SESSION

,2:30 - LUNCH

2:00 - TOUR, DEMONSTRATION, EXHIBITS AT EPA

FRIDAY, OCTOBER 15

LOCATION: U.S. DEPARTMENT OF INTERIOR

ROOM -----, 1800 E STREET, NW

SESSION IV - INFORMATION RESOURCES FOR NATURAL
RESOURCES

MODERATORS: MS. MARY HUFFER, DEPARTMENT OF INTERIOR
(AN INDIAN)

9:00 - WELCOME (BY HOST AGENCY) - MS. MARY HUFFER
DEPARTMENT OF INTERIOR

9:10 - WATER RESOURCES INFORMATION SERVICES
DR. WILLIAM S. BUTCHER
OFFICE OF WATER RESEARCH & TECHNOLOGY
DEPARTMENT OF INTERIOR

9:35 - INFORMATION TECHNOLOGY IN RESOURCES MANAGEMENT
PROF. A. NEELAMEGHAN, INDIAN STATISTICAL INSTITUTE
UNCLASSIFIED

PAGE 10 STATE 226218

10:00 - NATIONAL FISH AND WILDLIFE ENVIRONMENTAL
INFORMATION TRANSFER NETWORK
MR. ROBERT J. SMITH AND
MR. BERNARD K. DENNIS,
U.S. FISH & WILDLIFE SERVICE

10:25 - BREAK

10:40 - AN EVOLUTIONARY FRAMEWORK FOR DEVELOPED COUNTRY-
DEVELOPING COUNTRY COOPERATION FOR THE DEVELOPMENT OF
ENVIRONMENT AND NATURAL RESOURCES DATA-BANKS
N. SESHAGIRI AND DR. A.P. AGNIHOTRY,
ELECTRONICS COMMISSION

11:05 - COMPILATION AND DISTRIBUTION OF MINERAL
RESOURCE INFORMATION IN THE UNITED STATES
MR. DAVID F. DAVIDSON, U.S. GEOLOGICAL SURVEY

11:30 - (1) EARTH SCIENCES IN INDIA: PROBLEMS AND
OPPORTUNITIES WITH SPECIAL REFERENCE TO DEVELOPMENTAL
PROGRAMMES AND (2) NATIONAL EARTH SCIENCES DATA CENTRE
IN GEOLOGICAL SURVEY OF INDIA
DR. M.V.N. MURTHY, GEOLOGICAL SURVEY OF INDIA

11:55 - GENERAL DISCUSSION AND SUMMARY OF SESSION

12:30 - LUNCH

SESSION V - CLOSING

LOCATION: U.S. DEPARTMENT OF INTERIOR

ROOM -----, 1800 E STREET, N.W.

MODERATORS: DR. LEE G. BURCHINAL, U.S. COORDINATOR

-----, INDIAN GROUP LEADER

2:00 - DISCUSSION OF DRAFT SUMMARY RECORD OF SEMINAR

3:00 - TOUR, DEMONSTRATION, EXHIBITION AT INTERIOR

UNCLASSIFIED

PAGE 11 STATE 226218

DEPARTMENT

7:30 - RECEPTION AND DINNER IN HONOR OF THE INDIAN

GROUP (FORMAL SIGNING OF SEMINAR SUMMARY RECORD) ROBINSON

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Message Attributes

Automatic Decaptioning: X
Capture Date: 16 SEP 1999
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: ITINERARY, SEMINARS, SCIENTIFIC VISITS
Control Number: n/a
Copy: SINGLE
Draft Date: 13 SEP 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976STATE226218
Document Source: ADS
Document Unique ID: 00
Drafter: NSF/DSI:LGBURCHINAL:RWF
Enclosure: n/a
Executive Order: N/A
Errors: n/a
Film Number: D760345-0946
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t197609108/baaaeqas.tel
Line Count: 460
Locator: TEXT ON-LINE, TEXT ON MICROFILM
Office: ORIGIN NSF
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 9
Previous Channel Indicators:
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: vandyklc
Review Comment: n/a
Review Content Flags:
Review Date: 02 FEB 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <02 FEB 2004 by MaustMC>; APPROVED <01 SEP 2004 by vandyklc>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: US-INDIA SEMINAR ON INFORMATION RESOURCES IN
TAGS: TGEN, SENV, ENRG, IN, US
To: NEW DELHI
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006